

IN THE SPECIFICATION

Please **amend** paragraph [0009] as follows:

[0009] In another embodiment of the invention, the antimicrobial peptides are LLP1 analogs having modifications based on the following principles: (i) optimizing amphipathicity, (ii) substituting arginine (Arg) on the charged face and/or valine (Val) or tryptophan (Trp) on the hydrophobic face with another amino acid, and (iii) increasing peptide length (referred to collectively herein as LBU peptides, ~~e.g. LBU-2~~(e.g. LBU-1, SEQ ID NO:4; ~~LBU-3~~LBU-2, SEQ ID NO:5; ~~LBU-3.5~~LBU-3, SEQ ID NO:6; ~~LBU-4~~LBU-3.5, SEQ ID NO:7; ~~WLBU-4~~LBU-4, SEQ ID NO:8, ~~WLBU-2~~WLBU-1, SEQ ID NO:9, ~~WLBU-3~~WLBU-2, SEQ ID NO:10; and ~~WLBU-4~~; WLBU-3, WLBU-4, SEQ ID NO:11; and WLBU-4, SEQ ID NO:12; see Table 1). The LBU peptides deviate greatly from the parent LLPI, for example, LBU-2 and LBU-3 deviate from the parent LLP1 sequence by greater than 90%.

TABLE 1

| | | |
|---------|--|----------------|
| SA-5: | RVIRV VQRAC RAIRH IVRRI RQGLR RIL | (SEQ ID NO: 1) |
| LSA-5: | RVIRV VQRAC RAIRH IVRRI RQGLR RILRV V | (SEQ ID NO: 2) |
| WLSA-5: | RWIRV VQRWC RAIRH IWRRI RQGLR RWLRV V | (SEQ ID NO: 3) |
| LBU-1 | RVVRV VRRVV RR | (SEQ ID NO:4) |
| LBU-2: | RRVVR RVRRV VRRVV RVVRR VVRR | (SEQ ID NO: 5) |
| LBU-3 : | VRRVV RRVVR VVRRV VRRVR RVVRR VVRVV RRVRR | (SEQ ID NO: 6) |
| LBU-3.5 | RRVVR RVRRV VRRVV RVVRR VVRRV RVVVR RVVRV VRRVV RR | (SEQ ID NO:7) |
| LBU-4 | RVVRV VRRVV RVVRR VVRRV RVVVR RVVRR VRRVV RVVVR VVRRV VRR | (SEQ ID NO:8) |
| WLBU-1 | RVVRV VRRWV RR | (SEQ ID NO:9) |
| WLBU-2 | RRWVR RVRRV WRRVV RVVRR WVRR | (SEQ ID NO:10) |
| WLBU-3 | VRRVW RVVVR VVRRW VRRVR RVWRR VVRVV RRWVR R | (SEQ ID NO:11) |
| WLBU-4 | RVVRV VRRWV RVVRR VVRRV RVVVR RVVRR VRRVW RVVVR VVRRW RVVVR | (SEQ ID NO:12) |

IN THE DRAWINGS

Please **replace** the informal drawings of record with the Formal Drawings enclosed herewith.

IN THE SEQUENCE LISTING

Please **replace** the sequence listing of record with the Substitute Sequence Listing enclosed herewith.